

Application Serial No. 10/590,631  
Reply to office action of May 21, 2008

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PATENT  
Docket: CU-4997

**Amendments To The Claims**

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

1. (withdrawn) A method of generating alternating current (AC) comprising the steps of:

stacking a plurality of steel plates over each other in the form of a semicircle;

winding up a coil around an iron core; and

making a magnet rotate at the center in the inner space of the semicircular iron core, wherein the N-pole and S-pole of the magnet are alternatively arranged and become close to or far away from the iron core, to thereby make AC current generated in the coil.

2. (withdrawn) The digital current generating method of claim 1, further comprising the steps of:

making an auxiliary iron core in association with the iron core in order to reinforce power when the number of the magnetic poles passing through the iron core is even.

3. (currently amended) A digital alternating-current generating method comprising the steps of:

making the inner and outer cross-sectional shapes of an iron core differ from each other, ~~thereby making~~ so as to make electric wire at the inner portion of a coil

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**wound around the iron core** be shorter than that of the outer portion thereof, and make the magnetism balance the speed of current.

4. (new) The digital alternating-current generating method of claim 3, further comprising the steps of:

stacking a plurality of steel plates over each other to make the iron core in the form of a semicircle;

winding up a coil around the iron core; and

making a magnet rotate at the center in the inner space of the semicircular iron core, wherein the N-pole and S-pole of the magnet are alternatively arranged and become close to or far away from the iron core, to thereby make AC current generated in the coil.

5. (new) The digital alternating-current generating method of claim 4, further comprising the step of:

making an auxiliary iron core in association with the iron core in order to reinforce power when the number of the magnetic poles passing through the iron core is even.